

**1. Identification of the substance/preparation and of the company/undertaking**

**Product name:** Tacusil EPA2701 Part B

**Intended use:** Adhesive

**Manufacturer/Importer/Distributor Representative Company**

Kitpackers Trading (Huizhou) Co., Ltd.  
Room 9,11 Floor, Chuangxin Building Block 1, No.1, Technology Road,  
Technology Chuangxin Park, West of Dayabay, Huizhou City,  
Guangdong, P.R. China (86752) 5533798

Information Department: info@tacusil.com.hk

Emergency Telephone Number:

North America - Chemtrec: 1-800-424-9300 (24 hours)

International - Chemtrec: 01-703-527-3887 (24 hours).

**2. Hazards identification**

**Classification of the substance or mixture according to GB 13690-2009 (General rule for classification and hazard communication of chemicals):**

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Route of Exposure</u>
Acute toxicity	Category 4	Oral
Acute toxicity	Category 4	Dermal
Skin corrosion/irritation	Category 1B	
Serious eye damage/eye irritation	Category 1	
Skin sensitizer	Category 1	
Acute hazards to the aquatic environment	Category 3	
Chronic hazards to the aquatic environment	Category 3	

**Label elements according to GB 15258-2009 (General rules for preparation of precautionary label for chemicals):**

**Hazard pictogram:**



**Signal word:** Danger

---

<b>Hazard statement:</b>	H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H402 Harmful to aquatic life. H412 Harmful to aquatic life.with long lasting effects.
<b>Prevention:</b>	P260 Do not breathe dusts or mists. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection.
<b>Response:</b>	P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/... if you feel unwell. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTER/doctor/... if you feel unwell. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage.
<b>Storage:</b>	P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.
<b>Disposal:</b>	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

### 3. Composition / information on ingredients

**General description:** Mixture  
**Declaration of the ingredients according to GB 13690-2009:**

Hazard component CAS-No.	Content	GHS Classification
2-Ethyl-4-methylimidazole 931-36-2	92 %	Acute toxicity 4; Oral H302 Skin corrosion/irritation 2 H315 Serious eye damage/eye irritation 1 H318 Skin sensitizer 1B H317 Acute hazards to the aquatic environment 3 H402
2-piperazin-1-ylethylamine 140-31-8	8%	Acute toxicity 4; Oral H302 Acute toxicity 3; Dermal H311 Skin corrosion/irritation 1B H314 Skin sensitizer 1 H317 Toxic to reproduction 2 H361 Acute hazards to the aquatic environment 3 H402 Chronic hazards to the aquatic environment 3 H412

### 4. First aid measures

**Skin contact:** Rinse with running water and soap.  
Seek medical advice.

**Eye contact:** Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

**Inhalation:** Move to fresh air. If symptoms persist, seek medical advice.

**Ingestion:** Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.  
Seek medical advice.

### 5. Fire fighting measures

**Hazardous combustion products:** Oxides of carbon, oxides of nitrogen, irritating organic vapors.  
Sulphur oxides

**Extinguishing media:** Carbon dioxide, foam, powder

**Fire-fighting method:** In case of fire, keep containers cool with water spray.

**Notice and measures for firing fighting:** Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

## 6. Accidental release measures

<b>Emergency measures:</b>	Avoid contact with skin and eyes. Do not let product enter drains. Wear protective equipment. Ensure adequate ventilation.
<b>Clean-up methods:</b>	For small spills wipe up with paper towel and place in container for disposal. For large spills absorb onto inert absorbent material and place in sealed container for disposal. Dispose of contaminated material as waste according to Section 13.

## 7. Handling and storage

<b>Notice for handling:</b>	Avoid skin and eye contact. See advice in section 8
<b>Notice for storage:</b>	Refer to Technical Data Sheet

## 8. Exposure controls / personal protection

### Control parameters

<b>Exposure limit values</b>	No data available.
------------------------------	--------------------

<b>Engineering controls:</b>	Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.
------------------------------	---

<b>Respiratory protection:</b>	Use only in well-ventilated areas.
--------------------------------	------------------------------------

<b>Eye protection:</b>	Wear protective glasses.
------------------------	--------------------------

<b>Body protection:</b>	Wear suitable protective clothing.
-------------------------	------------------------------------

<b>Hand protection:</b>	<p>The use of chemical resistant gloves such as Nitrile is recommended. Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.</p> <p>Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to &gt; 30 minutes permeation time as per EN 374): nitrile rubber (NBR; <math>\geq 0.4</math> mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to &gt; 480 minutes permeation time as per EN 374): nitrile rubber (NBR; <math>\geq 0.4</math> mm thickness)</p> <p>This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.</p>
<b>Other protection:</b>	The selection of PPE shall at least compliant with "Law of the People's Republic of China on Prevention and Control of Occupational Diseases" and "Code of practice for selection of personal protective equipments" (GB/T 11651-2008).

### Pictograms for recommended PPE:



## 9. Physical and chemical properties

Physical state:	liquid	Appearance:	Clear or Light yellow
Evaporation rate:	Not available.	Odor:	mild
pH:	Not available.	Melting point:	Not determined
Boiling point:	> 93 °C (> 199.4 °F)	Density:	1.05 g/cm <sup>3</sup>
Vapor density:	Not available.	Vapor pressure:	Not available.
Flash point:	> 93 °C (> 199.4 °F)	Ignition temperature:	Not applicable
Lower explosive limit:	Not available.	Upper explosive limit:	Not available.
Solubility in water	Negligible (20 °C)	Viscosity:	50cps
Auto-ignition temperature:	Not available.	Flammability:	Not available.
Octanol / water distribution coefficient:	Not available.	Decomposition temperature:	Not available.

## 10. Stability and reactivity

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Conditions to avoid:</b>	Danger of decomposition if exposed to heat. Do not heat mixed adhesive unless you plan to use immediately. Failure to observe these precautions may result in excessive heat build-up causing an exotherm. The exotherm has the potential for release of toxic gasses.
<b>Incompatible products:</b>	Reacts with alcohols and amines. Reacts with oxidants, acids and lyes Reaction with some curing agents may produce an exothermic reaction which in large masses could cause runaway polymerization.
<b>Decomposition products:</b>	Hydrocarbons Irritating vapors. At higher temperature carbon oxides and nitrogen oxides may be generated. Rapid polymerisation may generate excessive heat and pressure. See section 5.
<b>Hazardous polymerization:</b>	May occur.

## 11. Toxicological information

### General toxicological information:

No laboratory animal data available.

### Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
2-Ethyl-4-methylimidazole 931-36-2	LD50	622 mg/kg	oral		rat	not specified
2-piperazin-1-ylethylamine 140-31-8	LD50	866 mg/kg	dermal		rabbit	Draize Test

### Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
2-Ethyl-4-methylimidazole 931-36-2	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2-piperazin-1-ylethylamine 140-31-8	corrosive	20 min	rabbit	not specified

### Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
2-Ethyl-4-methylimidazole 931-36-2	highly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

### Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
2-piperazin-1-ylethylamine 140-31-8	sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

### Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
2-piperazin-1-ylethylamine 140-31-8	negative negative negative	bacterial reverse mutation assay (e.g Ames test) DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro mammalian cell gene mutation assay	with and without with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) not specified not specified
2-piperazin-1-ylethylamine 140-31-8	negative	intraperitoneal		mouse	not specified

**Repeated dose toxicity:**

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
2-piperazin-1-ylethylamine 140-31-8	NOAEL=2000 ppm	oral: drinking water	>= 28 ddaily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

## 12. Ecological information

**General ecological information:**

Do not empty into drains / surface water / ground water.

**Ecotoxicity:**

No data available.

**Other adverse effects:**

Not available.

**Toxicity:**

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
2-piperazin-1-ylethylamine 140-31-8	LC50	> 100 mg/l	Fish	96 h	Salmo gairdneri (new name: Oncorhynchus mykiss)	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-piperazin-1-ylethylamine 140-31-8	EC50	32 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-piperazin-1-ylethylamine 140-31-8	NOEC	31 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-piperazin-1-ylethylamine 140-31-8	EC50	495 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-piperazin-1-ylethylamine 140-31-8	EC10	100 mg/l	Bacteria	17 h		

**Persistence and degradability:**

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
2-Ethyl-4-methylimidazole 931-36-2	readily biodegradable	aerobic	86 %	OECD Guideline 301 A (new version) (Ready Biodegradability:
2-piperazin-1-ylethylamine 140-31-8	under test conditions no biodegradation observed	aerobic	0 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle

**Bioaccumulative potential / Mobility in soil:**

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
2-piperazin-1-ylethylamine 140-31-8	-1.48					OECD Guideline 107 (Partition Coefficient (n-

**13. Disposal considerations****Product disposal:**

Dispose of in accordance with local and national regulations.

**Disposal of uncleaned packages:**

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

**14. Transport information****Road transport CN\_DG:**

Class: 8  
Packing group: III  
Classification code:  
Hazard ident. number:  
UN no.: 3267  
Label: 8  
Technical name: Corrosive liquid, basic, organic, n.o.s.

**Marine transport IMDG:**

Class: 8  
Packing group: III  
UN no.: 3267  
Label: 8  
EmS: F-A ,S-B  
Seawater pollutant: Marine pollutant  
Proper shipping name: Corrosive liquid, basic, organic, n.o.s.

**Air transport IATA:**

Class: 8  
Packing group: III  
Packaging instructions (passenger): 859  
Packaging instructions (cargo): 863  
UN no.: 3259  
Label: 8  
Proper shipping name: Corrosive liquid, basic, organic, n.o.s.



## 15. Regulatory information

The following laws and regulations lay down provisions in terms of chemicals safety use, storage, transportation, loading/unloading, classification as well as symbol.

“Law of the People's Republic of China on Work Safety”

“Law of the People's Republic of China on the Prevention and Treatment of Occupational Diseases”

“Regulation on the Safety Management of Hazardous Chemicals”

“Regulations on License to Work Safety”

## 16. Other information

**Disclaimer:** This Safety Data Sheet has been generated in accordance with Chinese law only. It provides information on the chemical product in the aspects of safety, health, environment, etc. recommending preventive and protective measures and countermeasures in case of emergency. The information contained herein does not constitute a guarantee concerning the properties of the material. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export.